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| **Table S18**: Fungal species used for phylogenomics analysis and the number of hydrophobins in each |
| Fungal phyllum | Fungal species | Predicted No. of hydrophobins in the genome | No. of hydrophobins used in the phylogenetic analysis |
| Basidiomycota | *Ceriporiopsis subvermispora* |  24  |  21 |
| Basidiomycota | *Phlebiopsis gigantea* |  20  |  14 |
| Basidiomycota | *Phanerochaete* *chrysosporium* |  17  |  15 |
| Basidiomycota | *Ganoderma sp* |  17  |  17 |
| Basidiomycota | *Phlebia brevispora* |  22 |  22 |
| Basidiomycota | *Serpula lacrimans* |  19 |  18 |
| Basidiomycota | *Wolfiporia cocos* |  3 |  2 |
| Basidiomycota | *Heterobasidion annosum* |  13 |  13 |
| Basidiomycota | *Schizophyllum commune* |  14 |  13 |
| Basidiomycota | *Coprinopsis cinerea* |  33 |  22 |
| Basidiomycota | *Laccaria bicolor* |  13 |  12 |
| Basidiomycota | *Ustilago maydis* |  2  |  1 |
| Ascomycota | *Acremonium alcalophilum* |  1  |  1 |